

### AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1. (Currently Amended) A medical guide wire in which at least a fluororesin coating layer is formed on a surface of a metal wire,

wherein the metal wire has a uniform thickness or a tapered tip;

wherein a particulate matter of fluororesin is present in the fluororesin coating layer, [[and]] the fluororesin coating layer and the particulate matter of fluororesin are baked by heating as a single unit at at least a melting point of the fluororesin coating layer, and the fluororesin coating layer and the particulate matter of fluororesin are compatible and melt into a single unit; and

wherein the fluororesin coating layer is an outermost layer that covers the particulate matter, and at least some of the particulate matter is formed in surface protrusion-shaped smooth projections, so that frictional resistance to a resin tube that comes into contact with the projections is reduced.

2. (Previously Presented) The medical guide wire according to claim 1, wherein a primer layer is further formed within the fluororesin coating layer;

wherein the particulate matter of fluororesin is present in at least one layer selected from the primer layer and the fluororesin coating layer; and

wherein the fluororesin coating layer of the outermost layer covers the particulate matter and at least some of the particulate matter is formed in surface protrusion-shaped projections.

3. (Canceled)

4. (Previously Presented) The medical guide wire according to claim 1, wherein the fluororesin coating layer and the matriculate matter include at least one selected from the group consisting of polytetrafluoroethylene (PTFE), tetrafluoroethylene-perfluoroalkylvinyl ether copolymer (PFA),

polychlorotrifluoroethylene (PCTFE), polyvinylidene fluoride (PVDF), polyvinyl fluoride (PVF), tetrafluoroethylene-hexafluoropropylene copolymer (FEP), and tetrafluoroethylene-ethylene copolymer (PETFE).

5. (Previously Presented) The medical guide wire according to claim 1, wherein the thickness of the fluororesin coating layer is at least 1  $\mu\text{m}$  and not more than 50 $\mu\text{m}$ .

6. (Original) The medical guide wire according to claim 1, wherein the average height of the projections is at least 0.1  $\mu\text{m}$  and not more than 20  $\mu\text{m}$ .

7. (Original) The medical guide wire according to claim 1, wherein the fluororesin coating layer surface has a mixture of flat portions and numerous protrusion-shaped projections.

8. (Previously Presented) The medical guide wire according to claim 1, wherein the density of the protrusion-shaped projections is at least an average of 1 per 0.01  $\text{mm}^2$ .

9-10. (Canceled)

11. (Previously Presented) The medical guide wire according to claim 2, wherein an average particle diameter of the particulate matter is at least the film thickness of the primer layer, and the average particle diameter is in a range of 0.5 to 30  $\mu\text{m}$ .

12-18. (Canceled)